GENERAL TECHNICAL CONDITIONS
(GTC)

1.0 GENERAL

2.0 SCOPE

3.0 APPLICABLE STANDARDS

4.0 SERVICE CONDITIONS

5.0 DRAWING

6.0 BASIC TECHNICAL PARAMETERS OF THE LINES

SECTION–I

GENERAL TECHNICAL CONDITIONS

1.00 GENERAL:

This part covers technical conditions pursuant to the contract and will form an integral part of the contract. The following provisions shall supplement all the detailed technical specifications and requirements brought out in accompanying Technical Specifications. The Contractor's proposal shall be based upon the use of equipment and materials complying fully with the requirements specified herein. It is recognized that the contractor may have standardized on the use of certain components, materials, processes or procedures different than those specified herein. Proposals offering similar equipment based on the manufacturer's standard practice will be considered provided such equipments meet other authoritative standards and will be of an equal or higher quality than the standard specified. Such equipment will also to meet the performance requirements specified and be acceptable to the Employer.

1.1 Limit Of Contract:

Equipment Furnished shall be complete in every respect with all mountings, fittings, fixtures and standard accessories normally provided with such equipment and/or needed for erection, completion and safe operation of the equipment as required by applicable codes, even though they may not have been specifically detailed in the technical specifications, unless included in the list of exclusions. All similar standard components/parts of similar standard equipments provided, shall be inter-changeable with one another.

Similarly, all services as may be necessary for the execution of the Contract though they may not have been specifically detailed in the Technical Specifications, unless specifically excluded, shall be furnished by the Contractor.

1.2 Equipment Performance Guarantee:

The performance guarantee of the equipment under the scope of the contract has been detailed in the Technical Specifications. These guarantees shall supplement the general performance guarantee provisions covered under General Conditions of Contract.

Liquidated damages for not meeting performance guarantees during the performance and guarantee tests shall be assessed and recovered

from the Contractor as detailed in Special conditions of Contract. Such liquidated damages shall be in addition to damages, if any, payable under any other clause of Conditions of Contract, Special Conditions of Contract.

1.3 **Engineering Data**:

The furnishing of engineering data by the Contractor shall be in accordance with the schedule for each set of equipment and materials as specified in the Technical Specifications. The review of the data by the Engineer will cover only general conformance of the data to the specifications and documents, interfaces with the equipment and materials provided under the Specifications, external connections and of the dimensions which might affect plant layout. This review by the Engineer may not indicate a thorough review of all dimensions, quantities and details of the equipment and materials, any device or item indicated or the accuracy of the information submitted. This review and/or approval by the Engineer shall not be considered, by the Contractor, as limiting any of its responsibilities and liabilities for mistakes and deviations from the requirements, specified under these Specifications and Documents.

All engineering data submitted by the Contractor after final process including review and approval by the Engineer shall form part of the Contract Documents and all the works performed shall be in strict conformity with these specifications unless otherwise expressed in writing by the Engineer.

1.4 **Drawings**:

All drawings submitted by the Contractor including those submitted at the time of Bid shall be in sufficient detail to indicate the type, size, arrangement, material description, Bill of Materials, weight of each component, break down for packing and shipment, the external connections, fixing arrangements required, the dimensions required for installation and inter-connections with other equipment and materials, clearances and spaces required for installation and inter-connections between various portions of equipment and any other information specifically requested in the Specifications.

Each drawing submitted by the Contractor shall be clearly marked with the name of the Employer, the unit/scheme designation, the specifications title, the specification number and the name of the project/scheme. If standard catalogue pages are submitted, the applicable items shall be indicated therein. All titles, noting, markings

and writings on the drawing shall be in English. All the dimensions shall be in metric units.

The drawings submitted by the Contractor shall be reviewed by the Engineer within four (4) weeks and shall be modified by the Contractor if any modifications and/or corrections are required by the Engineer. The Contractor shall incorporate such modifications and/or corrections and submit the final drawings for approval. Any delay arising out of failure by the Contractor to rectify the drawings in time shall not alter the contract schedule.

The drawings sent for approval to the Engineer shall be in quadruplicate. One print of such drawings will be returned to the Contractor, by the Engineer marked 'Approved/ Approved with corrections' or resubmit with corrections as noted. The Contractor shall thereupon furnish to the Employer such number of prints of approved drawings as may be mutually agreed upon between the

Employer and the Contractor and one reproducible original of the drawings, after incorporating all corrections. The Contractor shall supply soft copy of all such drawings in pen drive / CD for easy reproduction later.

1.5 **Inspection, Testing And Inspection Certificate**:

The Engineer, his duly authorized representative and/or an outside inspection agency acting on behalf of the Employer shall have, at all reasonable times, access to the Contractor's or its Sub-vendor's/Sub-Contractors' premises or works and shall have the power, at all reasonable times to inspect and examine the equipment materials and workmanship of the works during its manufacture or prior to dispatch and if part of equipment and materials is being manufactured or assembled at other premises or works, the Contractor shall obtain for the Engineer and for his duly authorized representative, permission to inspect as if the equipment and materials were being manufactured or assembled on the Contractor's own premises or works.

1.6 **Packaging And Transportation**:

All the equipment and materials shall be suitably protected coated, covered or boxed and crated to prevent damage or deterioration during transit, handling and storage at Sites till the time of erection, the contractor shall be responsible for any loss or damage during transportation, handling and storage due to improper packing.

While packing all the equipment and materials, the limitations from the point of view of availability of Railway wagon sizes in India should be taken account of.

The Contractor shall also give due consideration to the encumbrances, infringements etc., likely to be encountered during the transportation of the equipment to the site and shall, at his own cost, make all arrangements as may be necessary to ensure smooth and safe movement of the goods to the site.

The Contractor shall at its own cost carry out investigation to select the route and the mode to be adopted for transportation of the goods.

1.7 **Protection**:

All coated surfaces shall be protected against corrosion, erosion, abrasion, impact, dis-colouration and any other damage. All exposed threaded portions shall be suitably protected with either a metallic or a non-metallic protecting device. The parts that are likely to suffer damage by elements of nature especially those transshipped across the seas, shall also be properly treated and protected in a suitable manner.